

Total Phosphorus by SEAL AQ2 Discrete Analyzer SEAL Method EPA-119-A Rev. 4					Page 1 of 2
Facility Name: _____ VELAP ID _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
1. Is the linear calibration range determined initially, and does it contain a minimum of a blank and three standards?	<i>Method Supplement 1, Rev. 2 (MS) 3.2.1</i>				
2. Is linearity reestablished if any verification data exceeds initial calibration values by $\pm 10\%$ ?	MS 3.2.1				
3. Is a laboratory control sample analyzed with every batch, and is recovery assessed against current laboratory criteria? <i>NOTE: The laboratory "should" establish upper and lower control limits from control charts based on % recovery.</i>	MS 3.4.3, 3.4.3.4, 3.4.3.5				
4. Is at least one method blank carried through all the procedural steps with each batch?	MS 3.4.1.1				
5. Is the calibration verified using a calibration standard after every ten samples or every analytical batch?	MS 4.5				
6. Is a minimum of 10% of all samples spiked with the stock standard?	MS 3.3.1				
7. For compliance monitoring, is the concentration of the matrix spike at the regulatory limit OR 1 to 5 times higher than the background concentration of the sample?	MS 3.3.1.1.1				
8. Are samples preserved with sulfuric acid to pH<2 and cooled to $\leq 6^{\circ}\text{C}$ at the time of collection?	40CFR136.3 Table 1I				
9. Are samples analyzed within 28 days?	40CFR136.3 Table 1I				
Notes/Comments:					

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Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
10. Are calibration standards carried through the same digestion process as the samples?	10.2				
11. Are samples digested according to the procedure in EPA 365.1, 365.2, or 365.3? (Note which method is used.)	11.2				
12. Are the finished digests not neutralized with sodium hydroxide?	11.2				
13. Are test parameters set as specified in the method? These include 320 µL sample volume, 10 µL water volume, 480 second reaction time, 880 nm wavelength, 140 µL molybdate, and 30 µL ascorbic acid.	17.1				
14. Is the cuvette washed with EDTA solution after completing the analysis?	11.3				
15. Is all glassware used in the determination washed with hot 1:1 HCl and rinsed with deionized water?	6.3				
16. Is ASTM Type II water used for all solutions?	7.1				
17. Are samples which exceed the highest calibration standard diluted with the digested blank and reanalyzed or flagged as exceeding the calibration range?	12.2				

Notes/Comments: